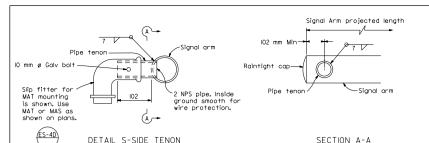
S

7

ES-7M



IDENTIFICATION NUMBER

Attach a stamped metal tag with each pole's indentification number to shaft above handhole. 7 mm high number minimum. A similar tag shall be attached to the top of the signal mast arm near the pole plate.





GENERAL NOTES

SPECIFICATIONS

DESIGN: AASHTO specifications for the design and construction of structural supports for highway signs, luminaires and traffic signals, dated 1994.

Loadina

WIND LOADINGS :129 km/h AASHTO

Unit Stresses

STRUCTURAL STEEL : fy = 331 MPa (tapered sheet steel)

fy = 248 MPa unless noted otherwise noted

CONSTRUCTION: Standard Specifications and the Special Provisions

NOTES

- I. 4-ASTM A-307 anchor bolts are required for each pole. Provide a hex nut, leveling nut and 2 washers for each bolt.
- 2. Luminare arms shall be round, tapered steel tubes, taper of II.45 mm/m to 11.66 mm/m with an end section 60 mm OD for mounting bardware. Extensions of 2 NPS pipe and 178 mm long may be used at the option of the manufacturer. When low pressure sodium luminaires are required, the extension shall be 381 mm.
- 3. Signal arms shall be round, tapered steel tubes, maximum taper
- 4. Handhole reinforcement ring shall be 6 mm x 51 mm for 3.04 mm to 6.07 mm poles, IO mm x 51mm for 7.94 mm.
- 5. Handholes for lighting standards shall be located on the downstream side of the pole unless otherwise noted on the plans.
- 6. Detail F. fatique resistant weld, is required at signal arm plate and pole base plate.
- 7. In lieu of the torque requirements for HS bolts, cap screws shall be tightened by the turn-of-nut method 1/3 turn from a snug tight condition. No washer will be required.
- 8. During pole erection, the post shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
- 9. When Project Plans show a lesser number of signs and signals, the Project Plans shall prevail.
- 10. Outside diameter, wall thickness, and corresponding section properties at the base of traffic signal poles and arms as shown in the Standard Plans are minimums. Unless otherwise specified, alternative sections require approval by the Engineer.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

SIGNAL AND LIGHTING **STANDARDS DETAILS NO. 1**

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

312

19A - 3 - 129 - 9.1 - 99 Use SL for special load case

PIPE TENONS

₹_Signal arm

—Tight fit

Signal arm

102 . . 76

102

DETAIL TS-TIP TENON

DETAIL TL-TIP TENON

This detail supersedes

Detail S when so designated

2 NPS pipe, chased

See note 2

for wire protection

2 NPS pipe, chased

for wire protection-

102 mm x 165 mm handhole reinforced with ring welded to outside of pole. See note 4, 3 mm cover plate. Anchor bolt-thread top 203 mm and galvanize After plumbing standard. place mortar all around bolts, Finish with slope ranging from 45° to 90° Finished grade 50 Min 75 Max mortar ASTM A307 anchor bolts Size of anchor bolts 0 is "a x b x c"-refer to tables on standard

HANDHOLE AND ANCHORAGE DETAILS

